

CLAIMS

What is claimed is:

Claims:

1. A database system for a navigation device, comprising:
5 a first database comprising at least first data;
a second database comprising at least second data independent of the first data; where
the first data comprises street information and the second data comprises location
information;
a working memory unit comprising a first memory area and a second memory area,
10 where the first data is stored in the first memory area and the second data is stored in the
second memory area;
and a processing unit.
2. The database system of claim 1 where the first and second memory areas are
15 dedicated.
3. The database system of claim 2 where substantially only first data is stored in the first
dedicated memory area.
- 20 4. The database system of claim 2 where substantially only second data is stored in the
second dedicated memory area.
5. The database system of claim 1 where the street information comprises at least one
street map.
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6. The database system of claim 5 where the second database comprises geographical
position data.
7. The database system of claim 6 where the location information comprises information
30 relating to street names, hotels, restaurants, monuments, events, sport stadiums, schools,
hospitals, buildings, road related data, and any combinations thereof.

8. The database system of claim 7 where the location information comprises road related information relating to traffic signals or signage, restrictions in the direction of a street, speed limitations, "no passing" limitations, curvature radii of the road, gradients of the road, road signs, road-related weather conditions and combinations thereof.

9. The database of claim 1 where the location information comprises Points Of Interest (POI).

10. The database system of claim 1 where the second database comprises data sets.

11. The database system of claim 10 where the data sets are organized according to the geographical position data.

12. The database system of claim 10 where the data sets comprise location information.

13. The database system of claim 1 where the working memory unit is a Random Access Memory (RAM) of the navigation device.

14. The database system of claim 13 where the RAM of the navigation device comprises dedicated memory areas.

15. The database system of claim 1 comprising a third database.

16. The database system of claim 15 where the third database comprises blocks of data corresponding to the second data.

17. The database system of claim 16 where the third database comprises an index.

18. A global positioning navigational system comprising:
a GPS receiver;
a first database comprising first data;
a second database comprising second data independent of the first data;
a working memory unit comprising a first memory area and a second area, and

a processing unit;

where the first data comprises street information and the second data comprises location information and where the first data is stored in the first memory and the second data is stored in the second memory area.

19. The global positioning navigational system of claim 18 where the first and second memory areas are dedicated.

20. The global positioning navigational system of claim 19 where substantially only first data is stored in the first dedicated memory area.

21. The global positioning navigational system of claim 20 where substantially only second data is stored in the second dedicated memory area.

22. The global positioning navigational system of claim 1 where the street information comprises at least one street map.

23. The global positioning navigational system of claim 22 where the second database comprises geographical position data.

24. The global positioning navigational system of claim 23 where the location information comprises information relating to street names, hotels, restaurants, monuments, events, sport stadiums, schools, hospitals, buildings, road related data, and any combinations thereof.

25. The global positioning navigational system of claim 24 where the location information comprises road related information relating to traffic signals or signage, restrictions in the direction of a street, speed limitations, "no passing" limitations, curvature radii of the road, gradients of the road, road signs, road-related weather conditions and combinations thereof.

26. The global positioning navigational system of claim 1 where the location information comprises Points Of Interest (POI).

27. The global positioning navigational system of claim 1 where the second database comprises data sets.

28. The global positioning navigational system of claim 27 where the data sets are organized according to the geographical position data.

29. The global positioning navigational system of claim 27 where the data sets comprise location information.

30. The global positioning navigational system of claim 18 where the working memory unit is a Random Access Memory (RAM) of the navigation device.

31. The global positioning navigational system of claim 30 where the RAM of the navigation device comprises dedicated memory areas.

32. The global positioning navigational system of claim 1 comprising a third database.

33. The global positioning navigational system of claim 32 where the third database comprises blocks of data corresponding to the second data.

34. The global positioning navigational system of claim 32 where the third database comprises an index.

35. A method for providing information to a navigation device, comprising:
storing data of a first type in a first location;
storing data of a second type, independent of the first type of data, in a second location;
providing data of the first type to a first dedicated memory area of a working memory unit;
providing data of the second type to a second dedicated memory area, separate from the first memory area, of the working memory unit;
processing either or both the first and second type of data; and
providing the processed data to the navigation device;

where the first type of data comprises street information and the second data type comprises location information.

36. A method for operating a navigation device in a vehicle, comprising:

detecting a GPS signal identifying the location of the vehicle;

retrieving a first type of data comprising street information from a first location;

providing the first data to a first dedicated memory area of a working memory unit;

retrieving a second type of data, independent of the first data, comprising location information from a second location;

providing the second type of data to a second dedicated memory area of a working memory unit;

processing the first data and the second data ,

providing the first and second data to the navigation device; and

presenting the first and second data on the navigation device.

37. The method of claim 36 comprising identifying location information according to a predetermined requirement.

38. The method of claim 37 comprising searching for the location information according to a predetermined requirement.

39. The method of claim 38 comprising the step of providing the location information to the navigation system; and displaying the data.